

Graphing Polynomial Functions
Wksht #3

Name _____

For each of the following identify the x-intercepts, the end behavior, and sketch the graph.

1) $y=(x+5)(x-1)(2x+5)$

2) $f(x)=2(x-3)(2x+1)$

3) $y=-2(x+3)^2(x-2)$

4) $g(x)=(3x-1)(x+3)(x+1)(x-6)$

5) $y=5(3x+2)^2$

6) $h(x)=-(x+3)(2x-1)(x^2-2)$

7) $y=(x-2)^2(x+4)^2$

8) $m(x)= -3(5x-1)(2x-9)(x+3)$